ABSTRACT OF THE DISCLOSURE

A thermal conductivity detector with an electrically heatable heating filament (6) that is mounted in the middle of a channel (5) in such a way that a fluid can flow around it. The heating filament is carried on its two ends on two electrically conductive carriers (7, 8) that intersect this channel. In particular to prevent the heating filament from relaxing at operational temperatures, at least one of the two carriers (7,8) is embodied in such a way that its distance from the other carrier is greater in the region of the middle of the channel than in the region of the wall of the channel (9). As a result, as the temperature rises, the middle areas of the two carriers (7, 8) on which the heating filament (6) is held move away from each other, so that the heating filament (6) is tightened.